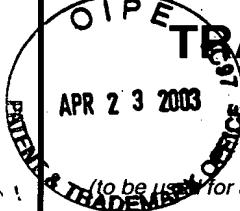


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PTO/SB/21 (08-00)

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 TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>		Application Number 09/974,712	
		Filing Date 10/10/01	
		First Named Inventor Friddle	
		Group Art Unit 1647	
		Examiner Name R. Landsman	
Total Number of Pages in This Submission	35	Attorney Docket Number	LEX-0251-USA

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <small>(for an Application)</small> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ Remarks	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <small>return postcard</small>
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PATENT TRADEMARK OFFICE

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Lance K. Ishimoto Reg. No. 41,866 Lexicon Genetics Incorporated
Signature	<i>Lance K. Ishimoto by David W. Stacey</i> <i>David W. Stacey</i> <i>Reg. No. 41,071</i>
Date	April 17, 2003

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 2327, Arlington, VA 22202 on April 17, 2003

Typed or printed name	Nancy Stacey
Signature	<i>Nancy Stacey</i>
Date	April 17, 2003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Friddle <i>et al.</i>	Group Art Unit: 1647
Application No.:	09/974,712	Examiner: R. Landsman
Filed:	October 10, 2001	Attorney Docket No.: LEX-0251-USA
Title:	Polynucleotides and Polypeptides Encoding Human Ion Channel Proteins (As Amended)	

AMENDMENT; AND RESPONSE TO OFFICE ACTION DATED
DECEMBER 17, 2002

RECEIVEDCommissioner for Patents
Arlington, VA 22202

APR 24 2003

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Sir:

The Applicants acknowledge the receipt of the Office Action ("the Action") mailed on December 17, 2002 (Paper No. 8), which has been carefully reviewed and studied. The Examiner is respectfully requested to enter the following amendments. Reexamination and reconsideration of the application is requested in view of the following amendments and remarks. In order to facilitate the Examiner's evaluation of the application, Applicants have attempted to address the rejections in Paper No. 8 in the same order in which they were originally raised.

A Petition for an Extension of Time of one month to and including April 17, 2003 and authorization to deduct the fee as required under 37 C.F.R. § 1.17(a)(1) from Applicants' representatives Deposit Account are included. The response is thus timely filed. Applicants believe no fees in addition to the fee for the extension of time are due in connection with this response. However, the Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 50-0892.

Also included herewith are: as **Exhibit A**, a clean copy of the pending claims; as **Exhibit B**, a marked up copy of the original claims; as **Exhibit C**, a marked up copy of the original title and abstract are attached hereto; as **Exhibit D**, a clean copy of the amended title and abstract;